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### **Exposure to Elemental Carbon, Organic Carbon, Nitrate, and Sulfate Fractions of Fine Particulate Matter and Risk of Preterm Birth in New Jersey, Ohio, and Pennsylvania (2000–2005)**

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**Table S1.** Descriptive statistics for particulate matter species ( $\mu\text{g}/\text{m}^3$ ) exposure concentrations, averaged over all weeks of exposure.

**Figure S1:** Effect measure modification by race/ethnicity (left) and smoking status (right) for organic carbon. Models are adjusted for maternal education level, marital status, age at delivery, smoking status (race/ethnicity models), race/ethnicity (smoking status models), season of conception, maximum temperature and co-occurring ozone. Weeks where interaction terms have  $p < 0.05$  are: ExPTB: none; VPTB: smoking 1-8, 10-12, 14, 18-21, 24, 26-28, race/eth 2, 10, 20-21, 23-28; MPTB: smoking all, race/eth 1, 3, 4, 6, 10-11, 13-15, 17-24, 26, 31; LPTB: smoking 1-15, 16, race 1, 3-5, 7-16, 13-14, 27.

**Figure S2:** Effect measure modification by race/ethnicity (left) and smoking status (right) for  $\text{NO}_3$ . Models are adjusted for maternal education level, marital status, age at delivery, smoking status (race/ethnicity models), race/ethnicity (smoking status models), season of conception, maximum temperature and co-occurring ozone. Weeks where interaction terms have  $p < 0.05$  are: ExPTB: none; VPTB: smoking 16, 22 race/eth 19; MPTB: none; LPTB: smoking 1-11, 13-14, 27, 16, race 2, 8, 10-14, 18-19.

**Figure S3:** Effect measure modification by race/ethnicity (left) and smoking status (right) for  $\text{SO}_4$ . Models are adjusted for maternal education level, marital status, age at delivery, smoking status (race/ethnicity models), race/ethnicity (smoking status models), season of conception,

maximum temperature and co-occurring ozone. Weeks where interaction terms have  $p < 0.05$  are: ExPTB: smoking 2-4, 20, race/eth 4; VPTB: none; MPTB: smoking 15; LPTB: smoking 2, 4, 7, 10, 12-14 race 15-22.

**Table S2:** Risk differences per 1,000,000 pregnancies with trimester end entire pregnancy length exposure windows. Exposure contrasts:  $0.25\mu\text{g}/\text{m}^3$  for elemental carbon (EC),  $1\mu\text{g}/\text{m}^3$  for organic carbon (OC),  $1\mu\text{g}/\text{m}^3$  for nitrates ( $\text{NO}_3$ ), and  $1\mu\text{g}/\text{m}^3$  for sulfates ( $\text{SO}_4$ ).